

MAY 4 2009

Municipality/Organization: Lexington

EPA NPDES Permit Number: BRP-WM-08A

MaDEP Transmittal Number: X 228 099

Annual Report Number

& Reporting Period: No. 6: March 08-March 09

NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John R. Livsey, PE

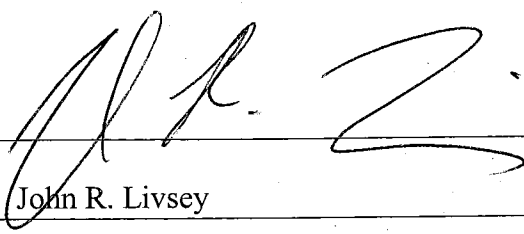
Title: Town Engineer

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: John R. Livsey

Title: Town Engineer

Date: 4-30-09

Part II. Self-Assessment

The Town of Lexington is in compliance with its NPDES Phase II Stormwater General Permit.

At Town Meeting on March 31, 2008, the Town passed a stormwater management bylaw. The bylaw is designed to meet EPA requirements for permitting of project disturbing greater than one acre of land. In addition, the bylaw addresses family residential projects involving demolition of existing structures and replacement.

Draft regulations are Enclosure A. Implementation of these regulations was delayed. Our schedule now calls for July 2009.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1C	Household hazardous waste collection days	DPW/ R. Beaudoin	Schedule, publicize and execute collections of household hazardous waste	Completed 8 drop collection days.	Repeat.
Revised					
1D	Educational Pamphlets		Handout leaflets and answer questions at DPW table at Town Street Sales	Completed	
Revised 2009	Water bill inserts Encl B.	Engineering / D. Pavlik Conservation/ E. Schandler	Insert has been prepared and printed. Scheduled for mailing Summer 09	Mailing will be complete by Aug 2009	Maintain supply of pamphlets at kiosks in Town Hall and other public places
1 A	Classroom Education	Engineering/ M. Flamang	Design and present elementary-school level session explaining stormwater system	Teachers have environmental curriculum. No stormwater presentations made in classrooms this year.	
Revised 2009					Meet with teachers to explain availability of stormwater material.
1E	Article in local newspaper	Engineering and Conservation	Write and publish article of general interest on stormwater	Articles published as planned.	Continue to distribute information to the media.
Revised 2009	Make use of available media to disseminate information on stormwater	Conservation/ E. Schandler Engineering/ D. Pavlik	Local papers published two articles on Watershed Stewardship.		

1a. Additions

1F	Create and Maintain Stormwater Web Site	Conservation/ E. Schandler Engineering/ D. Pavlik	Up-to-date web site http://www.lexingtonma.gov/conservation/watersheds.cfm	Web site is operating. Includes a link for questions and comments.	Maintain the site and respond to queries.
Revised 2009					
1G	Newsletter for watershed stewards program	Conservation/ E. Schandler	Publish newsletter biennially.	First newsletter was published, distributed and made available on web site. Copy enclosed with this report. Enclosure C	Continue publication
Revised 2009					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
2B	Water quality monitoring Old Res	Recreation Dept/ Karen Simmons	Sanitary survey of drain outlets in to Old Res Recreation Area	Sampling, analysis and reporting is complete.	Continue sampling and reporting as necessary to assure safe recreational uses.
Revised					
2B	Water Quality Monitoring Town wide	Engineering/ M. Flamang	Meet with watershed caretakers to support sampling programs	Participated in stormwater workshops with watershed groups to share water quality information.	Carry out sampling program described in Section 3 of this report.
Revised					
2D	Septic Systems Tracking Management	Health Dept/ K. Fox	Transfer data to electronic media, maintain and upgrade data	Maintained database.	Maintain database
Revised					

2a. Additions

2E	Public Involvement	Conservation/ E. Schandler Engineering/ D. Pavlik	Create and sustain a program of staff and volunteers to clean streams and monitor outfalls	Created Watershed Stewards program. Educated and trained volunteers to set priorities, gather workers and clean streams. Cleaned two sections of Vine Brook. Enclosure D is a summary report of stewards activities	Expand the program and mobilize volunteers for at least 3 work days.
Revised 2009					
2F	Public Involvement	Conservation/ E. Schandler Engineering/ D. Pavlik			Implement a database of reports filed by volunteers on condition of streams and outfalls.
Revised 2009					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
3A	Locate and map outfalls	DPW/ M. Flamang	Complete GIS mapping of town drainage system	GIS contractor has completed the sewer system.	GIS contractor is working on drainage system at the time of this report. Mapping will be complete by Spring 2010.
Revised					
3A	Locate outfalls	Engineering/ D. Pavlik	Survey to field locate all drainage structures	Continued field location and inspection of outfalls. Field inspected 10% of outfalls.	Continue survey.
3C	Stormwater Bylaw	Conservation/ K. Mullins Engineering/ J. Livsey	Write and implement stormwater regulations.	Bylaw has been passed. Regulations are drafted.	Pass and implement regulations.
Revised 2009					
3D	Locate and remediate potential sources of pollution	Engineering/ M. Flamang	Repair deficient sanitary sewers to reduce infiltration and exfiltration	Re-laid 2,200 feet of defective sanitary sewer in School Street, a tributary to Vine Brook watershed.	Identify priority areas and renovate 5,000 feet of sewer.
Revised 2009					

3a. Additions:

3D	Locate and remediate potential sources of pollution	Engineering/ M. Flamang	Design and carry out stream sampling town-wide to aid in identification of pollution hot spots	Selected and issued purchase order to engineering firm to conduct stream sampling on request.	Sample Vine Brook, Mill Brook and Kiln Brook.
Revised 2009					
3E	Locate and remediate potential sources of pollution	Engineering/ M. Flamang and Recreation/ K. Simmons	Improve stormwater system in vicinity of Old Res to reduce wet weather contamination.	Completed study of alternatives for treatment of stormwater runoff into Old Res facility. Selected best alternative and applied for funding and proceeded with final design.	Secure funding and proceed with design and construction of stormwater treatment for street runoff and other pollution at Old Res.
3E	Locate and remediate potential sources of pollution	Engineering/ D. Pavlik	Upgrade stormwater collection to include treatment where town is doing major maintenance.	Designed and funded new structural stormwater BMP's for projects at Ross Road and Ivan Street	Complete construction of BMP's at Ross Road and Ivan St. Design and fund at least one new stormwater BMP for town drainage.
Revised 2009					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
4C	Inspection and reporting	Building and Engineering	Train personnel to inspect for runoff issues	Training was not done this year pending final regulations.	Update and deliver training to reflect complete stormwater bylaw and regulations.
Revised		G. Rhodes and M. Flamang			
4C	Inspection and reporting	Engineering and Conservation	Design and distribute handout for permits	During this year, the town referred contractors to the EPA construction permit program. Engineering permits have been annotated to require as-builts of privately owned treatment facilities.	Clarify Building Permit applications and refer contractors to EPA permit program
Revised		M. Flamang and K. Mullen			

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
5B	Develop BMP's list	Engineering	Develop list of BMP's that are appropriate for Lexington public and private projects	Staff has studied State DEP Stormwater Handbook. BMP's are described in the Handbook, now State policy.	Finalize stormwater management regulations to work with state policy.
Revised		M. Flamang			
5D	Runoff Operation and Maintenance Plan	Conservation	Require in-house reviewers to screen permit applications for O&M plans	Review process is part of draft	Insure that review process is incorporated into town stormwater regulations.
Revised		K. Mullen			

5a. Additions to Post-Construction Stormwater Management

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
5E	Stream Restoration	Engineering and Conservation/ J. Livsey and K. Mullen	Develop and Implement a Program of Waterway Maintenance and Restoration	Town has committed \$110,000 in funding for a Stream Restoration Program.	The effort this year will be to quantify the length and numbers of streams needing restoration and to develop scope for contractors to implement restoration in compliance with applicable regulations.
2009					
5F	Stream Restoration	DPW/ J. Livsey	Implement segments of Stream Restoration Program	Town has committed additional funding for DPW to increase level of effort to be expended for stream restoration.	Develop procedures, obtain all necessary permits and carry out restoration of four segments of streams deemed of highest priority.
2009					

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
6A Revised	Employee training	Public Works W. Brooks	Conduct toolbox session to refresh on BMP's	Operations personnel are temporarily decentralized. Tool box sessions were not practical.	Resume tool box training when Public Works staff occupies new facility.
6B Revised	Municipal pollution prevention	Public Works W. Brooks	Schedule street cleaning	Continued program	Continue program
6C Revised	Vehicle washing	Public Works D. Adams	Wash indoors to keep solids from stream	Continued program	Continue program
6D Revised	Used oil recycling	Health Dept D. Fullerton	Collect used oil at drop off facility and dispose of properly	Continued program	Continue program
6B	Municipal pollution prevention	Public Works M. Flamang	Incorporate BMP's into design of new PW garage facility	Constructed new DPW facility.	Startup new DPW facility with stormwater BMP's.